03040205-05

(Pudding Swamp)

General Description

Watershed 03040205-05 (formerly 03040205-110) is located in Lee, Sumter, and Clarendon Counties and consists primarily of ***Pudding Swamp*** and its tributaries. The watershed occupies 119,869 acres of the Lower Coastal Plain region of South Carolina. Land use/land cover in the watershed includes: 15.7% forested land, 0.3% nonforested wetland, 7.9% urban land, 0.3% water, 28.3% forested wetland, 1.7% scrub/shrub land, and 45.8% agricultural land.

Pudding Swamp accepts drainage from Hope Swamp (Threemile Branch), Trustless Branch, and Horse Branch (Fuller Bay, Cypress Lake) before merging with Douglas Swamp. Douglas Swamp flows past Woods Bay State Park and accepts drainage from Woods Bay, Cypress Branch (Bushy Branch), Burnt Branch, and Rose Creek. Downstream of the confluence, Newman Branch (Cain Branch) flows into Pudding Swamp. Pudding Swamp drains into the Black River. There are a total of 210.1 stream miles and 175.8 acres of lake waters in this watershed. Pudding Swamp, Douglas Swamp, and Cypress Branch are classified FW* (Dissolved oxygen not less than 4.0 mg/l and pH between 5.0 and 8.0) and the remaining streams in the watershed are FW.

Surface Water Quality

Station #	Type	Class	Description
PD-157	BIO	FW*	PUDDING SWAMP AT US 301
RS-01002	RS01	FW*	DOUGLAS SWAMP OFF THIGPEN RD, 3.5 MI E OF TURBEVILLE
PD-695	BIO	FW*	DOUGLAS SWAMP AT US 378
PD-203	S/INT	FW*	PUDDING SWAMP AT SC 527 8.1 MI NW OF KINGSTREE

Pudding Swamp – There are two SCDHEC monitoring sites along Pudding Swamp. This is a blackwater system, characterized by naturally low dissolved oxygen concentration conditions. At the upstream site ***(PD-157),*** aquatic life uses are fully supported based on macroinvertebrate community data. At the downstream site ***(PD-203)***, aquatic life and recreational uses are fully supported. Although dissolved oxygen excursions occurred, they were typical of values seen in blackwater systems and were considered natural, not standards violations. Significant decreasing trends in five-day biological oxygen demand and total phosphorus concentration suggest improving conditions for these parameters.

Douglas Swamp **-** There are two SCDHEC monitoring sites along Douglas Swamp. This is a blackwater system, characterized by naturally low dissolved oxygen concentration conditions. At the upstream site ***(RS-01002),*** aquatic life and recreational uses are fully supported. Although dissolved oxygen excursions occurred, they were typical of values seen in blackwater systems and were considered natural, not standards violations. At the downstream site ***(PD-695),*** aquatic life uses are fully supported based on macroinvertebrate community data.

Groundwater Quality

Well #	Class	Aquifer	Location
AMB-009	GB	BLACK CREEK	OLANTA

NPDES Program

Active NPDES Facilities

RECEIVING STREAM *FACILITY NAME* *PERMITTED FLOW @ PIPE (MGD)*	*NPDES#* *TYPE* *COMMENT*
PUDDING SWAMP SUMTER COUNTY/REST AREA I-95 PIPE #: 001 FLOW: 0.04	SC0038962 MINOR DOMESTIC
PUDDING SWAMP SPRINGFIELD REALTY/DOUBLE K MINE PIPE #: 001 FLOW: M/R	SCG730201 MINOR INDUSTRIAL
PUDDING SWAMP US GROUP INC./BARRINEAU PIT PIPE #: 001 FLOW: M/R	SCG730691 MINOR INDUSTRIAL

Nonpoint Source Management Program

Land Disposal Activities

Landfill Facilities

LANDFILL NAME *FACILITY TYPE*	*PERMIT #* *STATUS*
TOWN OF TIMMONSVILLE C&D	211003-1701 ACTIVE

Land Application Sites

LAND APPLICATION SYSTEM *FACILITY NAME*	*ND#* *TYPE*
SPRAYFIELD TOWN OF TURBEVILLE	ND0085014 DOMESTIC

Growth Potential

There is a low to moderate potential for growth in this watershed, which contains the Towns of Turbeville and Olanta, and portions of the I-95 and U.S. Hwy. 378 corridors. The I-95/US Hwy 378 interchange has water and sewer service and is expected to see moderate to high growth. Water and sewer services are available in and around the Towns of Olanta and Turbeville, and should encourage growth. The remainder of the watershed is rural with agricultural and timberland uses.